

Please amend claims 6-9, 11, 15, 16 and 27 as follows:

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6. (Amended) An apparatus as in claim 1 further including a support that mounts the opposed bending platens at upper and lower locations with respect to each other wherein the first platen is the lower platen and the second platen is the upper platen, at least one template being mounted above said upper platen, the lower [bending] platen being deformable and having a connection to the actuator so as to deform the lower platen from the planar shape to the bent shape, the upper platen being initially conformingly deformable to the shape of the lower platen as the heated glass sheet is moved with the lower platen and bent therebetween said platens, both of said platens subsequently conforming to the shape of said template as said lower platen is moved toward said template and the glass sheet is bent to its final bent shape, and both of said platens including quench openings that move therewith during the deformation of the platens and subsequently supply quenching gas to temper the bent glass sheet.

7. (Amended) An apparatus as in claim 1 wherein the first [lower] platen includes deformable drive shafts, drive wheels mounted on the drive shafts to engage the heated glass sheet and provide movement thereof during platen deformation that provides the bending, and quench tubes that define the quench openings of the first [lower] platen and rotatably support the drive shafts thereof such that the drive wheels move the heated glass sheet during the bending and tempering [quenching].

8. (Amended) An apparatus as in claim 7 wherein the second [upper] platen includes idler shafts, idler wheels mounted on the idler shafts to engage the heated glass sheet and to rotate with movement of the glass sheet, and quench tubes that define the quench openings of the second [upper] platen and rotatably support the idler shafts.

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9. (Amended) An apparatus as in claim 8 wherein the second [upper] platen further includes an actuator for raising said upper platen to allow the glass sheet to be indexed therebetween said platens, said actuator allowing said second [upper] platen to be maintained in its deformed shape against [said] a template after the bending of the glass sheet and furthermore for controllably returning said second [upper] platen to a planar shape.

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11. (Amended) An apparatus as in claim 7 further including means for reversibly driving the drive wheels to move the glass sheet during the bending and tempering [quenching].

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15. (Amended) A glass bending and tempering apparatus comprising: a first platen for receiving a heated glass sheet to be bent; said first platen being deformable and including an actuator for deforming said platen from a planar shape to a bent shape; said first platen including quench openings throughout the extent thereof; said quench openings of the first platen movable therewith during the deformation of the platen; a second platen having quench openings throughout the extent thereof and opposing the first platen with the glass sheet therebetween; a support mounting said platens at upper and lower locations with respect to each other wherein the first platen is the lower platen and the second platen is the upper platen; said actuator being constrainable and having the ability to lift portions of said first platen a controlled distance to form the desired bent shape in the glass sheet; said lower platen including deformable drive shafts, drive wheels mounted on the drive shafts to engage the heated glass sheet and provide movement thereof during platen deformation that provides the bending, and quench tubes that define the quench openings of the lower platen and rotatably support the drive shafts thereof such that the drive wheels move the heated glass sheet during the bending and tempering [quenching]; said upper platen including idler shafts, idler wheels mounted on the idler shafts to engage the heated glass sheet and to rotate with movement of the glass sheet, and quench tubes that define the quench openings of the upper platen and rotatably support the idler shafts; and quenching gas being supplied to the quench openings of both platens and thereby to both sides of the glass sheet to temper the bent glass sheet between the platens.

P3 16. (Amended) A glass bending and tempering apparatus comprising: a first platen for receiving a heated glass sheet to be bent; said first platen being deformable and including an actuator for deforming said platen from a planar shape to a bent shape; said first platen including quench openings throughout the extent thereof; said quench openings of the first platen movable therewith during the deformation of the platen; a second platen having quench openings throughout the extent thereof and opposing the first platen with the glass sheet therebetween; a support mounting said platens at upper and lower locations with respect to each other wherein the first platen is the lower platen and the second platen is the upper platen; said second platen including an actuator for raising and lowering said second platen with respect to said first platen; at least one template mounted above said upper platen; said second platen being pressed against said template as the first platen is deformed from a planar shape to a bent shape to bend the heated glass sheet thereagainst said second platen; said second platen conforming to said template; said lower platen including deformable drive shafts, drive wheels mounted on the drive shafts to engage the heated glass sheet and provide movement thereof during platen deformation that provides the bending, and quench tubes that define the quench openings of the lower platen and rotatably support the drive shafts thereof such that the drive wheels move the heated glass sheet during the bending and tempering [quenching]; said upper platen including idler shafts, idler wheels mounted on the idler shafts to engage the heated glass sheet and to rotate with movement of the glass sheet, and quench tubes that define the quench openings of the upper platen and rotatably support the idler shafts; and quenching gas being supplied to the quench openings of both platens and thereby to both sides of the glass sheet to temper the bent glass sheet between the platens.

P4 abT2 27. (New) An apparatus for uniformly tempering a glass sheet comprising: opposing upper and lower longitudinally extending, spaced apart quench tubes; an actuator connected to the quench tubes for moving the quench tubes as a glass sheet is bent about a direction parallel to the quench tubes to generally conform the tubes to the shape of the bent glass sheet; means connected to the movable quench tubes for movably engaging the glass sheet; and means to supply quenching gas through the quench tubes to uniformly temper a glass sheet therebetween.

Please insert the following new claim:

30. (New) A glass sheet bending and tempering apparatus comprising: lower and upper opposed deformable platens each of which includes elongated quench tubes which are substantially parallel to each other and have quench openings; the lower platen having deformable drive shafts which extend between the elongated quench tubes thereof and are oriented to be substantially perpendicular to those quench tubes and which are rotatably supported by those quench tubes, and the lower platen also having drive wheels supported on the deformable drive shafts thereof at spaced locations to engage and move the glass sheet to be bent; the upper platen having idler shafts mounted on the elongated quench tubes thereof and also having idler wheels mounted by the idler shafts at spaced locations to engage the glass sheet to be bent; actuating means for causing deformation of the lower platen with the upper platen being conformably deformable to the shape of the lower platen as the lower platen is bent about a direction parallel to the quench tubes from a flat shape to a bent shape with the glass sheet disposed between the platens as the quench openings of the elongated quench tubes and the wheels are moved with the platens as the wheels engage and bend the glass sheet; means to supply quenching gas to the quench openings of both platens after bending has finished to thereby temper the bent glass sheet between the platens; and drive means for reversibly driving the drive wheels to move the glass sheets during the bending and tempering of the glass sheet.

REMARKS

By this Amendment, the pending claims are 1-16, which are identical to those claims originally allowed in the patent (except for minor amendments made to clarify the invention), independent claim 27, and new independent claim 30. Each of claims 17-26, and 28-29, added by amendments during the pendency of the parent reissue applications to this case, have been canceled. Each of the amended claims along with the supporting disclosure is provided below.